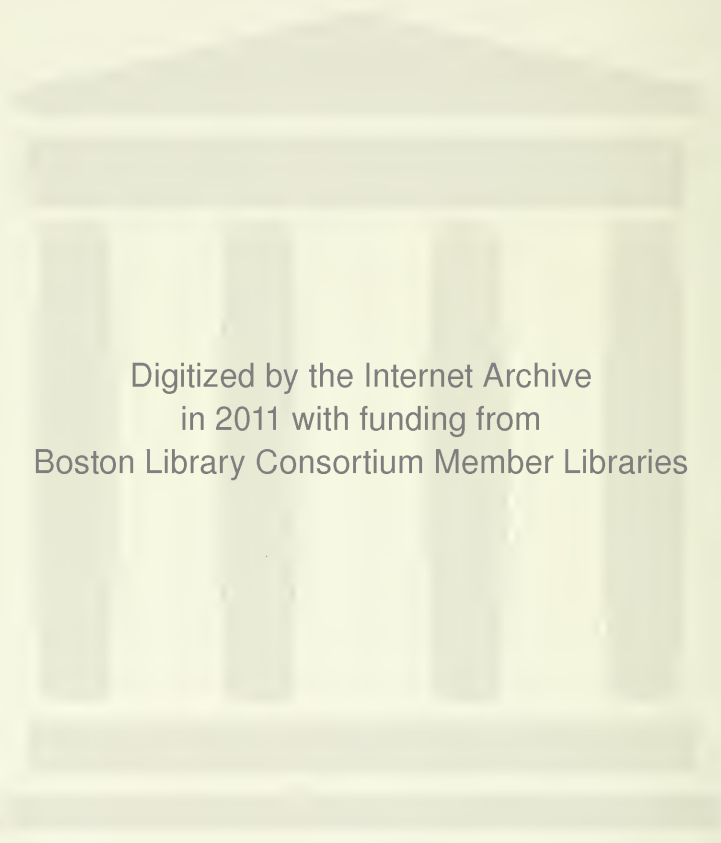


**Northeastern
University
1977-78**

**Boston-Bouvé College
Graduate School**





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**Northeastern
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1977-78**

**Boston-Bouvé College
Graduate School**

**100 Dockser Hall
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NEW ENGLAND
ASSOCIATION
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AND COLLEGES
ACCREDITED MEMBERS



NORTHEASTERN

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ACADEMIC CALENDAR 1977—1978

Fall Quarter 1977

Registration period		
Burlington	Tuesday—Wednesday	Sept. 13—14
Boston	Monday—Thursday	Sept. 19—22
Classes begin	Monday	Sept. 26
Last day to drop a course	Wednesday	Nov. 23
Examination period	Monday—Saturday	Dec. 12—17

Winter Quarter 1977—1978

Registration period		
Burlington	Tuesday	Nov. 29
Boston	Monday—Thursday	Dec. 5—8
Classes begin	Tuesday	Jan. 3
Last day to drop a course	Friday	Mar. 3
Examination period	Monday—Saturday	Mar. 20—25

Spring Quarter 1978

Registration period		
Burlington	Tuesday	Mar. 7
Boston	Monday—Thursday	Mar. 13—16
Classes begin	Monday	Apr. 3
Last day to file card for Spring Commencement	Friday	Mar. 31
Last day to pay fee for Spring Commencement	Monday	May 1
Final grades due in Registrar's Office for June graduates	Friday	June 2
Last day to drop a course	Friday	June 2
Examination period	Monday—Saturday	June 12—17
Spring Commencement	Sunday	June 18

Summer Quarter 1978

Registration period		
Burlington	Monday—Tuesday	June 12—13
Boston	Wednesday—Thursday	June 14—15
Classes begin	Monday	June 26
Last day to file card for Fall Commencement	Wednesday	July 5
Last day to pay fee for Fall Commencement	Tuesday	Aug. 1
Examination period	Wednesday—Thursday	Aug. 2—3

UNIVERSITY HOLIDAYS 1977—1978

Columbus Day	Monday	October 10
Veterans' Day	Friday	November 11
Thanksgiving Recess	Thursday—Saturday	November 24—26
Christmas Vacation	Monday—Monday	Dec. 19—Jan. 2
Martin Luther King Day	Monday	January 16
Washington's Birthday	Monday	February 20
Patriot's Day	Monday	April 17
Memorial Day	Monday	May 29
Independence Day	Tuesday	July 4
Labor Day	Monday	September 4

Equal Opportunity Policy

Northeastern University is committed to a policy of providing equal opportunity for all. In all matters involving admissions, registration, and all official relationships with students, including evaluation of academic performance, the University insists on a policy of nondiscrimination. Northeastern University is also an equal opportunity employer; it is institutional policy that there shall not be any discrimination against any employee or applicant for employment because of race, color, religion, sex, age, national origin, or on the basis of being a handicapped but otherwise qualified individual. In addition, Northeastern takes affirmative action in the recruitment of students and employees. Inquiries concerning our equal opportunity policies may be referred to the University Affirmative Action Officer and/or the Title IX coordinator.

Delivery of Services

The University assumes no liability, and hereby expressly negates the same, for failure to provide or delay in providing educational or related services or facilities or for any other failure or delay in performance arising out of or due to causes beyond the reasonable control of the University, which causes include, without limitation, power failure, fire, strikes by University employees or others, damage by the elements and acts of public authorities. The University will, however, exert reasonable efforts, when in its judgment it is appropriate to do so, to provide comparable or substantially equivalent services, facilities or performance, but its inability or failure to do so shall not subject it to liability.

Emergency Closing of the University

Northeastern University has made arrangements to notify students, faculty, and staff by radio when it becomes necessary to cancel classes because of extremely inclement weather. Radio stations WBZ, WEEI, WHDH, WJDA, WCOP, WRKO, WLYN, WKOX, WHAV, WVBF-FM, WBCN-FM, and WLLH, will announce the University's decision to close.

In addition, the University maintains an emergency snow phone (262-SNOW). Whenever in doubt, call 262-SNOW and a taped message will indicate the status of classes.

the governing boards and officers of the university

January, 1977

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the university

Founded in 1898, Northeastern University is incorporated as a privately endowed nonsectarian institution of higher learning under the General Laws of Massachusetts. The State Legislature by special enactment has given the University general degree-granting powers. The University is governed by a Board of Trustees elected by and from the Northeastern University Corporation, which is composed of nearly 180 distinguished business and professional men and women.

From its beginning, Northeastern University has had as its dominant purpose the discovery of community educational needs and the meeting of these in distinctive and serviceable ways. The University has not duplicated the programs of other institutions, but has sought to pioneer new areas of educational service.

A distinctive feature of Northeastern University is its Cooperative Plan, initiated by the College of Engineering in 1909 and subsequently adopted by the Colleges of Business Administration (1922); Liberal Arts (1935); Education (1953); Pharmacy (1962); Nursing (1964); Boston-Bouvé College (1964); the College of Criminal Justice (1967); and by Lincoln College's daytime Bachelor of Engineering Technology program (1971). This educational method enables students to gain valuable practical experience as an integral part of their college program and also provides the means by which they may contribute substantially to the financing of their education. The Plan has been extended to the graduate level in engineering, actuarial science, rehabilitation administration, professional accounting, business administration, and law.

In the field of adult education, programs of study have been developed to meet a variety of needs. University College offers evening courses — offered by the University since 1906 — and adult-day courses leading to the bachelor's degree. In addition to offering day undergraduate programs in Electrical Engineering Technology and Mechanical Engineering Technology, Lincoln College offers evening/part-time certificate, associate, and bachelor's degree programs in technological areas. All formal courses of study leading to degrees through part-time programs are approved by the Basic College faculties concerned.

GRADUATE AND PROFESSIONAL SCHOOLS

The ten graduate and professional schools of the University offer day and evening programs leading to the degrees listed.

The Graduate School of Actuarial Science offers the degree of Master of Science in Actuarial Science.

The Graduate School of Arts and Sciences offers the degrees of Master of Arts, Master of Science, Master of Science in Health Science, Master of Public Administration, and Doctor of Philosophy.

The Graduate School of Boston-Bouv  College offers the degree of Master of Science with specializations in Physical Education and Recreation Education.

The Graduate School of Business Administration offers the degree of Master of Business Administration.

The Graduate Program in Criminal Justice offers the degree of Master of Science.

The Graduate School of Education offers the degrees of Master of Education and Doctor of Education and the Certificate of Advanced Graduate Study.

The Graduate School of Engineering offers the degrees of Master of Science, Engineer degree, Doctor of Engineering, and Doctor of Philosophy.

The School of Law offers the degree of Juris Doctor.

The Graduate School of Pharmacy and Allied Health Professions offers the degrees of Master of Science and Doctor of Philosophy.

The Graduate School of Professional Accounting offers the degree of Master of Science in Accounting.

CENTER FOR CONTINUING EDUCATION

The Center for Continuing Education was established in 1960 to relate the University to the needs of its community in a period of accelerated change. Adult education programs offered by the Center and University College have since been consolidated. Its programs are composed of seminars, conferences, institutes, forums, and a wide variety of special courses designed to serve specific needs. The Division of Special Programs, working cooperatively with trade associations and professional societies, offers a wide variety of programs dealing with current needs and problems. Through its Division of Community Services, working with governmental agencies and community organizations, the Center is becoming increasingly involved in social problems on both the local and national level.

Many of these programs are conducted at Henderson House, Northeastern University's conference center in Weston, Massachusetts.

RESEARCH ACTIVITIES

The facilities of the University are engaged in a wide variety of basic research projects in business, science, social science, pharmacy, and engineering. These are coordinated by the Dean of Research, whose services are University-wide and available to the faculties of all the Colleges.

Although Northeastern is primarily concerned with undergraduate and graduate instruction, the University believes that the most effective teaching and learning take place in an environment characterized by research activities directed toward extending the frontiers of knowledge.

buildings and facilities

MAIN CAMPUS

The main campus of Northeastern University is located at 360 Huntington Avenue in the Back Bay section of Boston. Many of the city's famous cultural, educational, and philanthropic institutions are situated in the Back Bay, including the Museum of Fine Arts, Symphony Hall, Horticultural Hall, the Isabella Stewart Gardner Museum, the Harvard teaching hospitals, the Boston Public Library, and many schools and colleges. Most are within walking distance of Northeastern University.

Major transportation facilities serving the Boston area are Logan International Airport, two rail terminals, bus terminals serving inter- and intra-state lines, and MBTA subway-bus service within the metropolitan-suburban area. There is a subway stop in front of the campus. For motorists, the best routes to the campus are the Massachusetts Turnpike (Exit 22) and Route 9, of which Huntington Avenue is the intown section.

The campus of 50 acres is divided by Huntington Avenue, with the main educational buildings on one side and dormitories on the other. The principal buildings, all of which have been constructed since 1938, are of glazed brick in contemporary classic style. Most are interconnected by underground passageways.

Eli Student Center

The Carl S. Eli Student Center provides facilities for student recreation and for extracurricular activities. The Alumni Auditorium, with a seating capacity of 1,300, is part of the Center. Also included are special drama facilities, a ballroom, main lounge, fine arts exhibition area, student offices, conference rooms, and a dining area seating more than 1,000.

Libraries

The University library system consists of the Dodge Library, which is the main library; the Suburban Campus Library at Burlington; the School of Law Library; and divisional libraries for Physics and Electrical Engineering, Chemistry and Biology, Mathematics and Psychology, and Health, Physical and Recreation Education, and Physical Therapy. There are additional subject collections for the Center for Management Development at Andover, Massachusetts, and the Marine Science Institute in Nahant.

The library collections number 404,000 volumes supplemented by some 452,300 titles in microprint, microfilm, and microfiche forms. The collection includes, in addition, some 4,000 periodical titles, 100,000 documents, and 4,600 sound recordings.

Cabot Physical Education Center

The Godfrey Lowell Cabot Physical Education Center is one of the best equipped in New England. The large gymnasium contains four basketball courts. In addition, the Center consists of an athletic cage, a small gymnasium, and a rifle range, as well as administrative offices for the Department of Athletics and for the Physical Education Department of Boston-Bouvé College.

A recent addition to the Center, the Barletta Natatorium, houses a 105-foot swimming pool, a practice tank for the crew, handball courts, and shower and dressing facilities.

Dockser Hall

Charles and Estelle Dockser Hall, the main Boston-Bouvé College building, completed in 1968, houses a large gymnasium, dance studio, motor performance laboratory, college library, community recreation laboratory, folk arts center, dark and music rooms, recreation resources area, locker rooms, offices, classrooms, conference room and lounge, storage facilities, and a research laboratory.

SUBURBAN FACILITIES

Suburban Campus

The Suburban Campus, located near the junction of Routes 128 and 3 in Burlington, Massachusetts, was established to meet the needs of individuals and of industry in the area.

In addition to graduate courses in engineering, physics, mathematics, business administration, science, education, and the arts, portions of undergraduate programs leading to the associate and bachelor's degrees, special programs for adults, and noncredit state-of-the-art programs are offered.

Warren Center

The Warren Center is a practical laboratory for Boston-Bouvé College in outdoor education and conservation, in group practicum, and in camping administration, programming, and counseling. At this Center in Ashland, completed in 1967, there are tennis courts, field hockey and lacrosse fields, waterfront for swimming and boating, overnight camp sites, fields and forests, heated cottages, the Hayden Lodge with a recreation hall, library, crafts shop, dining facilities, and conference accommodations.

Henderson House

The University's conference center, Henderson House, is located in Weston, Massachusetts. The Center for Continuing Education conducts short-term courses, seminars, and special institutes for business, professional, and research groups. Henderson House is 12 miles from the main campus.

Marine Science Institute

The Marine Science Institute at Nahant, Massachusetts, is a research and instructional facility primarily engaged in studies of marine biology and oceanography. The Institute is operated all year, and is about 20 miles northeast of Boston. Many of the courses at this institute are applicable toward an advanced degree in biology or health science.

Government Center Campus

With the cooperation of the Federal Executive Board, the Graduate School of Liberal Arts' Department of Political Science offers an entire Master of Public Administration program at the John F. Kennedy Building in downtown Boston. This program is primarily for individuals employed in Federal, state, or local civil services.

Nashua Campus

Students residing in the southern New Hampshire area may take a significant portion of the M.B.A. program at facilities in Nashua, New Hampshire. These facilities, made available by Sanders Associates, Inc., are located in the company's headquarters on Route 3, just over the Massachusetts line.



boston-bouvé college

graduate school

The purposes of advanced study in Boston-Bouvé College are consistent with the philosophy of Northeastern University, and with the goals of advanced study in the professions. The programs are designed to fulfill the needs and interests of personnel in physical and recreation education in an era of social and educational change and redirection.

Graduate study is founded in the fields of knowledge and specialization which are extensively explored in upper-division or upper-class years of undergraduate preparation. The nature of advanced study leading to the master's degree demands of students and faculty attitudes of intensive critical analysis; cognitive development of idea and thought reliably tested in scholarly search and discussion, with application involving educational resources and practice; specialized research and creative experimentation in emerging theories, with application in the primary specialized field and its ancillary contexts; exploration and development of new trends in curriculum theory, process, and evaluation; critiques of professional reading and related literature; conversance with diverse methods and interpretation of scientific, philosophic, historical, and descriptive research; and a depth study using the appropriate research method in an approved investigation or thesis/project under faculty advisement.

The goals of graduate education in Boston-Bouvé College are:

1. To provide advanced preparation for administrators, supervisors, teachers, recreation specialists, coaches, and researchers through specific professional study and interdisciplinary experience.
2. To develop appreciation for the orderly approach to discovery through research, philosophical thought, and discussion.
3. To provide a sound basis for research and to facilitate student research experiences and applications.
4. To contribute to the development and refinement of dance, games, sports, recreation, and outdoor education within their cultural settings, and through comparative study.
5. To develop leaders and teachers capable of designing current and innovative approaches to learning and curriculum development.
6. To encourage intensive study in a specialized area of concern, with awareness of problems in education and society.
7. To provide a foundation for advanced study at the doctoral level.

PART-TIME STUDY

Graduate programs in Boston-Bouvé College are structured to provide an opportunity for the master's degree candidate to attend classes in the late afternoon or evening while continuing his/her full-time employment. By judicious use of electives and independent study, an unemployed student may carry the equivalent of a full-time course load in Recreation.

Students normally take one or two courses per quarter and can complete the degree program in two to three years, depending upon whether or not course work is taken during the summer quarter.

Students maintaining a satisfactory academic standing may petition the Director of the Graduate School for permission to take more than two courses per quarter.

GENERAL REGULATIONS

The general regulations and minimum requirements for all graduate programs are established by the Northeastern University Graduate Council. In some matters the committee of each graduate school is allowed discretion to establish regulations within limits defined by the Council. The regulations and academic requirements which follow have been formulated in accordance with this general policy.

Application

All applicants should address inquiries to Boston-Bouvé College Graduate School. Application forms and information will be mailed promptly.

Registration

Students must register within the period listed on the school calendar. Registration will not be permitted after this period.

Residence

All work for advanced degrees must be completed in residence at the University, unless approval has been obtained from the Director of the Boston-Bouvé College Graduate School for work taken elsewhere. Students who are in residence and using the facilities of the University must register for such work.

Student Visas

Foreign students on student visas must study on a full-time basis. There is a full-time program available with advisement in the Recreation curriculum. *There is no full-time program in Physical Education at this time.*

Grading System

The performance of students in graduate courses is recorded by the instructor, using the following grades:

- A Excellent
For performance of high graduate caliber
- B Satisfactory
For performance at a satisfactory level
- C Fair
For performance not at the level expected in graduate work
- F Failure
For unsatisfactory performance

In addition, the following letter designations are used:

- I Incomplete
For failure to complete course work
- S Satisfactory without quality designation
For satisfactory completion of course work
- U Unsatisfactory without quality designation

The grades S and U are used for the first quarter of a two-quarter sequence in which the second-quarter grade applies to both the first and second quarters of the sequence: e.g., Thesis I and II.

The designation I is to be changed to a grade upon removal of the deficiencies which caused the I to be reported. Deficiencies must be removed within the quarter following that for which the I is received, unless an extension of time is granted by the instructor. However, such extension of time may not exceed two additional consecutive calendar quarters. Grades of Incomplete received in Thesis I and II may be continued beyond the two-quarters' limit, but must be removed prior to graduation and within the six-year time limitation.

Any student who wishes to take a make-up examination must obtain permission from the Director of Boston-Bouvé College Graduate School by the second week of the quarter succeeding that in which the examination is missed. The make-up examination must be taken in that succeeding quarter unless circumstances warrant permission from the Director to defer it to the second succeeding quarter.

Class Hours and Credits

All credits at Northeastern University are entered as quarter-hour credits, with a quarter hour of credit being equivalent to three-fourths of a semester hour, i.e., 12 semester hours are equal to 16 quarter hours.

All classes in the Boston-Bouvé College Graduate School meet on a quarter basis, with an academic quarter defined as a term of approximately 12 weeks' duration. In the summer quarter, classes meet in a term of six weeks' duration. The academic calendar in the front of this bulletin should be consulted to determine the opening dates of each quarter.

Continuity of Program

Students are expected to maintain continuous progress toward a degree. Any student who does not attend Northeastern for a period of one year must apply for readmission.

Withdrawals

In order to withdraw from a course, a student must fill out an official withdrawal form obtained at the Registrar's Office or at the Burlington Campus. Withdrawals may be made through the ninth class meeting of the quarter. Students will be withdrawn as of the date on which they complete the form. Ceasing to attend a class or notifying the instructor does not constitute an official withdrawal. Petitions for withdrawal from a course after the ninth class meeting of the quarter must be submitted to the Director of the Graduate School, and may be approved to avert unusual hardships on the student.

Students who do not attend the first two sessions will be dropped from the class unless they notify the Registrar of their intention not to withdraw.

Changes in Requirements

The continuing development of the Graduate School forces frequent revision of curricula. In every new bulletin, some improvements are indicated. When changes impose no hardship on the student and school facilities permit, the student is expected to meet the requirements of the latest bulletin. If the student finds it impossible to meet these requirements, the bulletin for the year in which he entered becomes the binding one.

Application for the Diploma

If a commencement card is not filed with the Registrar's Office on or before the applicable date listed on the calendar, there is no assurance that the degree will be granted in that particular year, even though all other requirements have been fulfilled.

THE MASTER OF SCIENCE DEGREE

Admission to Degree Candidacy

For admission to the Boston-Bouvé College Graduate School, a degree candidate must have presented the following to the Director of the Graduate School:

1. A completed application and \$15 application fee.
2. Official transcript(s) from accredited institution(s) as evidence of successful completion of the baccalaureate degree. The transcript(s) should show a cumulative average of 2.5 or better and a minimum of 18 semester hours or 24 quarter hours of work in specified courses in the student's proposed major or the equivalent in professional background.

3. Record of an interview with the Director of the Boston-Bouvé College Graduate School or designate — required only if candidate has an undergraduate degree unrelated to the area of specialization or has less than a 2.5 cumulative average.
4. Three references from persons familiar with the applicant's professional, academic, and character background.
5. An official record of the Miller Analogies Test score.

It is recommended that all materials be on file in the office of Boston-Bouvé College Graduate School before registration for the first graduate course. In no case will a conference and course registration be permitted without a minimum of a completed application and a copy of the undergraduate transcript. The additional materials — the Miller Analogies Test score and references — *must* be received no later than the end of the first quarter. A student may not continue in the program unless these conditions are fulfilled.

Academic Classifications

Students whose materials meet the criteria above are classified as regular students.

The Director of Boston-Bouvé College Graduate School may admit any person as a special student who presents evidence of a bachelor's degree and who appears otherwise prepared to undertake study in the Graduate School. Admission is on the provision that the applicant: a) files an application and b) acknowledges that subsequent to being reclassified as a degree candidate, only 12 quarter hours of academic credit earned as a special student may be applied toward a degree.

Academic Requirements

A candidate for the master's degree must complete an approved program conforming to requirements of the department in which the candidate is registered. At the discretion of the Graduate Committee, any student whose record is not satisfactory may be dropped from the program. A minimum of 48 quarter hours of correlated, graduate-caliber work, along with other study required by the department, must be completed.

An average grade of at least B must be obtained in the quarter hours of credit required for the degree, excluding any transfer credits. Not more than eight quarter hours of extra or repeated courses are allowed to satisfy grade requirements for the degree.

Within the above limitations, a required course for which a grade of F is received must be repeated with a grade of C or better, and may be repeated only once. If a grade of F is received in an elective course, that course may be repeated once to obtain a grade of C or better, or another elective course may be submitted. If a grade of C is received in a required course, that course may be repeated once to obtain a grade of B or better.

A degree candidate's record is subject to review by the Boston-Bouvé College Graduate Committee upon completion of his/her sixth course at Northeastern University. At this time, the student must have made reasonable progress in achieving his/her program objectives, and have obtained at least a B average. If the requirements are met, he/she is encouraged to continue the program. In the event his/her record is unsatisfactory, he/she may be dropped as a degree candidate from the Boston-Bouvé College Graduate School.

Program Selection

Upon acceptance as a degree candidate, the student is assigned to a program adviser in his/her major area of concentration. In consultation with his/her adviser, the student develops a program of study, including program objectives, anticipated courses, and estimated dates for completion of the various degree requirements. Prior to completion of the first 12 quarter hours of credit, the program requires approval by the Boston-Bouvé College Graduate Committee. Any subsequent changes in program require further Committee approval.

Transfer Credits

A maximum of 12 quarter hours of credit obtained at another institution is accepted toward the master's degree, provided that the credits are recommended for transfer by the student's program adviser; consist of work taken at the graduate level for graduate credit; carry grades of A or B; have been earned at a recognized institution; and have not been used toward any other degree. Students should petition the Director of the Graduate School in writing for all transfer credit, completing the necessary form obtainable from either the office of Boston-Bouvé College or the faculty program adviser. This form should be submitted to the student's program adviser along with an official transcript and a course description. Grades on transfer credits may not be used in obtaining the academic average necessary for completion of degree requirements.

Time Limitations

Course credits earned in the graduate study program or accepted by transfer are valid for a maximum of six years from the date of course completion unless an extension is granted by the College Graduate Committee.

Comprehensive Examination

A comprehensive subject-matter examination is taken by each candidate no later than two weeks before his commencement. This examination may be taken when the candidate has completed at least three-fourths of the designated course work, and received consent of his program adviser. The comprehensive examination is prepared by selected graduate faculty with whom the student has studied. The areas to be tested are commensurate

with the student's specialization, area of concentration, and core subject matter appropriate to his professional field. The program adviser makes arrangements for the preparation of the test. Faculty members preparing the examination assume responsibility for its reading and grading, and for informing the adviser of results. Test results are reported by the program adviser to the Director of the Boston-Bouvé College Graduate School.

Each section of the examination is graded on the basis of A, B, C, or F. The candidate's total grade must average to the grade of B. Grades of F are not acceptable. A student failing all or part of the examination may, upon the recommendation of his adviser, be given one re-examination. Conditions governing re-examination are determined by the Director of the Graduate School or an appropriate designate.

Thesis/Project

Each candidate must submit a thesis or project which clearly exhibits his/her research ability, and is designed to increase the scope of his/her individual specialization. The proposal is submitted to the program advisor for approval. Upon initial approval, an advisor and two additional committee members are appointed by the Director of the Graduate School at the recommendation of the program advisor. The thesis or project proposal and completed document must be approved by the thesis/project committee and the Director of the Graduate School.



financial information

FINANCIAL OBLIGATIONS

Tuition

Tuition rates and fees are subject to revision by the Board of Trustees at any time. However, any change in tuition and fees will become effective at the beginning of the school year which follows the one in which the change was announced. Tuition for master's degree candidates and special students is \$60 per quarter hour of credit.

Tuition statements are mailed to students by the Bursar's Office and are payable by check to Northeastern University on or before the date specified.

Fees

All applications must be accompanied by a nonrefundable application fee of \$15. No application will be processed until the fee has been received by the Graduate School of Boston-Bouv  College. Checks should be made payable to Northeastern University and sent, with the application, to Director of Graduate School, 100 Dockser Hall.

Other fees include a charge of \$10 for late payment of tuition; a fee of \$2 for deferred tuition (with approval of Bursar); and a fee of \$25 for all degree candidates, payable four weeks before commencement by the applicable date listed on the academic calendar.

All part-time students on the Huntington Avenue Campus are charged \$.75 a quarter for the services available in the Student Center.

All financial obligations to the University must be discharged by graduation.

Refunds

Tuition refunds are granted only on the basis of the date appearing on the official withdrawal form filed by the student. Non-attendance does not constitute official withdrawal. Questions regarding refunds should be discussed with Bursar's Office.

Refunds will be granted in accordance with the following schedule:

Official Withdrawal Filed Within:	Percentage of Tuition Refunded:
First week of quarter	100
Second week	75
Third week	50
Fourth week	25

FINANCIAL AID

There is a limited amount of financial aid for part-time students enrolled in Boston-Bouvé College Graduate School. Graduate assistantships and/or fellowships in the College are not available to part-time students. There are a limited number of teaching assistantships available to qualified full-time graduate students. Assigned duties require 18-20 hours per week for which the student receives a \$3,000 stipend and tuition waiver. Further information and applications may be obtained from the Boston-Bouvé College Graduate Office.

The Office of Financial Aid offers several types of assistance to graduate students. All awards are based on financial need. Since the majority of these awards are sponsored by the Federal Government, the amount of aid granted is dependent upon the amount of funds allocated to Northeastern University each year.

Only students who have been officially accepted as degree candidates may apply for financial aid. In addition, the University only awards financial aid to students who are U.S. citizens and permanent residents of the United States. Students who are studying in the United States on student visas are not eligible for Federal assistance.

Northeastern University is a participant in the Graduate and Professional School Financial Aid Service (GAPSFAS). All applicants must file a GAPSFAS in order to be considered for financial aid. All sections of the GAPSFAS, including the parents' section, must be completed and sent to GAPSFAS, Box 2614, Princeton, New Jersey 08540. Northeastern University also requires a Graduate Student Application. These forms may be obtained in the Office of Financial Aid, 254 Richards Hall.

The following types of assistance are administered by the Office of Financial Aid:

National Direct Student Loan

This program is available to full-time graduate students who *need* a loan to meet their educational costs. Graduate students may borrow up to \$10,000 under this program. Repayment and interest do not begin until nine months after the student ceases to carry at least a half-time academic load at any institution of higher education. Repayment may be extended over a ten-year period with an interest rate of three percent per annum. No payments are required for up to three years while a borrower is serving in the Armed Forces, Peace Corps, or VISTA. Cancellation provisions are available for borrowers who work in certain fields of teaching or specified military duty.

College Work-Study Program

This program is available to full-time graduate students who have financial need. It is designed to give students an opportunity to earn as much as \$3.50 per hour working in jobs on or off campus in public or private non-

profit organizations. This program is administered solely by the Office of Financial Aid and should not be confused with the University's Cooperative Education Program.

Guaranteed Student Loan Program

Under this program, students who are matriculated degree candidates, enrolled for at least *one-half* the normal academic load, may borrow from a participating bank or other financial institution. Terms and conditions of these loans vary from state to state. New federal regulations affecting this program were signed into law on October 12, 1976 (S.2657). In some states, full-time graduate students may borrow up to \$5,000 per academic year. Loan recommendations are based on financial need. Students eligible for Federal Interest benefits are not subject to interest payments until nine months after they cease to carry at least a half-time academic load. Repayment may be extended for as long as ten years with an interest rate of seven per cent per annum. No payments are required for up to three years while a borrower is serving in the Armed Forces, Peace Corps, or VISTA. Information and applications are available from banks, State Guarantee agencies, and Regional Offices of the U.S. Office of Education. Massachusetts residents may contact the Office of Financial Aid for the necessary applications.

Martin Luther King, Jr., Scholarships

Established in 1969 in memory of the late Rev. Martin Luther King, Jr., awards are made as openings occur to qualified minority graduate students who show financial need and are accepted to full-time study in the graduate schools of the University. Stipends will cover tuition and all fees. Applications for Martin Luther King Scholarships are available at the African American Institute, 40 Leon Street, 437-3141.



faculty

GRADUATE TEACHING FACULTY OF BOSTON-BOUVÉ COLLEGE

- Christensen, Carl S., B.S., M.S., Ph.D., *Professor of Physical Education and Chairman of the Department*
- Curtin, Robert S., B.S., M.Ed., Ed.D., *Associate Professor of Physical Education*
- Dawson, Sylvia C., B.S., M.S., *Assistant Professor of Recreation Education*
- Eliopoulos, Elaine G., B.S., M.Ed., *Associate Professor of Recreation Education*
- Fotsch, Estelle M., B.S., M.S., Ph.D., *Associate Professor of Physical Education*
- Fox, John W., A.B., M.A., Ed.D., *Professor of Physical Education*
- Garman, Betty Gene, B.S., M.P.H., *Assistant Professor of Physical Therapy*
- Garrity, H. Marie, B.S.Ed., Ed.M., Ed.D., *Professor of Health Education and Executive Officer of the Department*
- Gillespie, William Jay, B.S., M.Ed., Ed.D., *Associate Professor of Physical Education*
- Hayes, Robert C., B.S., M.S., Ed.D., *Assistant Professor of Recreation Education*
- Kassabian, Kerkor, B.S., Ed.M., *Associate Professor of Physical Education*
- Lepley, Paul M., B.S., M.Ed., Ed.D., *Dean of Boston-Bouvé College, Director of Boston-Bouvé College Graduate School, and Professor of Physical Education*
- Lintner, Marie A., B.S., M.S., Ph.D., *Assistant Professor of Physical Education*
- Luttgens, Kathryn, B.S., M.S., Ph.D., *Professor of Physical Education*
- McCay, Albert H., B.A., M.A., Ed.D., *Professor of Recreation Education and Chairman of the Department*
- Morrison, Richard, B.A., M.S., Ed.D., *Associate Professor of Recreation Education*
- Neilson, Elizabeth, B.S., M.Ed., Ed.D., *Adjunct Professor of Health Education*
- Robinson, Frank, B.A., M.S., *Associate Professor of Recreation Education*
- Rowlands, Jeanne L., B.A., B.S., M.A., *Professor of Physical Education*
- Sayed, Alae-Eldin, B.S., M.S., Ed.D., *Associate Professor of Recreation Education*
- Van Slyck, Elizabeth W., B.S., M.A., *Professor of Physical Therapy*
- Zaremba, Margaret M., B.A., M.S.W., *Assistant Professor of Health Education*
- Zobel, Richard C., B.S., M.A., Ed.D., *Professor of Physical Education*



fields of study

PROGRAMS IN PROFESSIONAL SPECIALIZATIONS

Master of Science

Description

All students must complete one of the programs as outlined in the following pages. In almost all cases the sequence is designed to be very flexible. Any variations or changes must have the prior recommendation of the student's program adviser and approval of the Boston-Bouvé College Graduate School Director.

Core Courses Required of All Candidates

- 50.841 Introduction to Educational Statistics
- 66.802 Research Design and Methodology
- 66.890 Thesis/Project I
- 66.891 Thesis/Project II

Competency, as demonstrated by the successful completion of proficiency examination, is accepted in lieu of Statistics and/or Research Design. The candidate must petition the Director of Boston-Bouvé College Graduate School for permission to attempt the proficiency examination. An elective course must be substituted for a core course which has been waived.

Specialization in Physical Education

For a specialization in Physical Education, 20 quarter hours of departmental courses are required. Eight quarter hours are selected from foundation courses taken within Boston-Bouvé College and 12 quarter hours from one of the five areas of concentration. In addition, 12 quarter hours of free elective courses appropriate to the student's program are selected from within Boston-Bouvé College or from other Colleges at Northeastern University. Foundation electives, areas of concentration, and the courses therein follow.

Foundation Electives within Boston-Bouvé College

- 62.870 Philosophies in Physical Education
- 62.872 Comparative Physical Education
- 66.874 Seminar in Issues and Trends in Health and Physical Education
- 66.886 Critical Thinking in Health, Physical Education and Recreation
- 66.899 Seminar/Workshop
- 66.901 Health Issues: Implications for Education
- 66.904 Contemporary World Health

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66.905 Environmental Health

66.906 Consumer Health

Areas of Concentration

Area I — Administration and Supervision

62.810 Administration of Physical Education and Athletics

66.814 Supervision of Professional Personnel

62.822 Problems in Contemporary Athletics for Men and Women

66.805 Planning and Developing Facilities for Physical Education and Recreation

Area II — Curriculum and Instruction

62.830 Curriculum Development in Physical Education

62.833 Applied Evaluation in Curriculum and Instruction

62.835 Seminar in Curriculum and Instruction

62.840 Advances in Instructional Concepts

62.842 Physical Education for Students with Special Needs

62.884 Movement and the Learning Process

Area III — Development and Learning in Movement and Perception

62.842 Physical Education for Students with Special Needs

62.860 Early Childhood Movement Patterns

62.864 Perceptual Motor Development

62.884 Movement and the Learning Process

66.894 Independent Study

Selected Interdisciplinary Courses or Movement Education Laboratory

Area IV — Sports Sciences

62.851 Anatomic Kinesiology

62.852 Mechanical Analysis of Sport

62.854 Physical Fitness Appraisal and Guidance

62.857 Trauma Diagnosis and Treatment in Sport

62.859 Rehabilitation from Injury in Sport

62.880 Sociology of Sport

62.882 Psychology of Coaching and Sport

Specialization in Recreation Education

To specialize in Recreation Education, four quarter hours of departmental course work are required. Each candidate is registered for either 63.812, Seminar in Contemporary Issues and Problems in Recreation Services or 63.830, Advanced Organization and Administration of Recreation Services. In addition, seven courses (28 quarter hours) appropriate to the student's needs and professional objectives are selected from the following list:

Community Recreation

- 63.834 Programs in Recreation
- 63.840 Politics and Bureaucracy in Recreation
- 63.842 Recreation and the Community School — Concepts and Practices
- 63.844 Leisure and Delinquent Behavior
- 63.805 Program Evaluation in Recreation

Therapeutic Recreation

- 63.850 Therapeutic Recreation Services for Special Populations
- 63.852 Seminar on Programming in Therapeutic Recreation
- 63.854 Observation of Recreation Services in Treatment Settings

Outdoor Education

- 63.824 School Camping
- 63.826 Administration of Resident Camp Programs
- 63.857 European Mountaineering
- 63.858 European Backpacking and Orienteering
- 63.859 Comparative European Recreation

General Recreation Courses

- 63.813 Practicum in Clinical Recreation
- 63.816 Budgeting Systems
- 63.836 Public Relations in Recreation Agencies
- 66.805 Planning and Developing Facilities for Physical Education and Recreation
- 66.894 Independent Study
- Selected Interdisciplinary Courses

courses

DESCRIPTION OF COURSES

All courses carry four quarter hours of credit unless otherwise indicated. Please see the current brochure for summer, fall, winter, and spring quarter course offerings.

PHYSICAL EDUCATION

62.810 Administration of Physical Education and Athletics

Physical education and athletics discussed as an entity consistent with the current emphasis on unity, economy, and equal opportunity. Modern practices and principles of general administration applied to problems of staffing, scheduling, budgeting, collective bargaining, personnel welfare, program development, and public relations. All levels of education and the broad spectrum of programs common to physical education and athletics are considered.

62.822 Problems in Contemporary Athletics for Men and Women

Current problems, practices, and national issues pertinent to the conduct of athletic competition. National, state, and conference organizations are studied.

62.830 Curriculum Development in Physical Education

The foundations of curriculum theory, research, practice, and evaluation in American education with specific application to health and physical education. Emphasis is placed on the processes of curriculum design and implementation in school settings.

62.833 Applied Evaluation in Curriculum and Instruction

Application of current educational evaluation theory to concepts of instruction and curriculum development in health and physical education. Includes formative and summative measures applied to the improvement of instruction, assessment of process and product in the educational program, interaction analysis. *Prep. 62.830 or 66.902.*

62.835 Seminar in Curriculum and Instruction

Problems of special interest in instructional theory, curriculum theory, and applied evaluation theory. Practical papers and class presentations emphasize scholarship in the solution of problems or issues in health, physical education, or recreation. *Prep. one course from the Curriculum and Instruction concentration in health or physical education; or, 63.834.*

62.840 Advances in Instructional Concepts

Current practices in and a search for new approaches to instruction in physical education. Includes analysis of teaching and learning styles, available instructional technology and the implementation of instructional designs in health and physical education classes.

62.842 Physical Education for Students with Special Needs

Assessment, planning, instruction and evaluation practices recommended for work with special needs in physical education classes. The role of the physical educator in the resource program is explored.

62.851 Anatomic Kinesiology

A study of the human musculo-skeletal system and its relationship to human movement patterns. Electromyography is used in assessing muscle-movement relationships. Current electromyographic research and techniques are investigated.

62.852 Mechanical Analysis of Sport

Application of mechanics of motion to the analysis of human motion. Emphasis is placed on cinematography and film analysis procedures in teaching and research. *Prep.* 62.851, *Anatomic Kinesiology* or *permission of instructor*.

62.854 Physical Fitness Appraisal and Guidance

Physical fitness screening tests and procedures, developmental and rehabilitation programs, fitness-producing activities, and current trends in testing and research. *Prep.* *Exercise Physiology and Measurement and Evaluation*, or *permission of instructor*.

62.857 Trauma Diagnosis and Treatment in Sport

An investigation of injury pathology, evaluative testing, diagnosis, and appropriate treatment modalities. *Prep.* *undergraduate Athletic Training* or *experience*.

62.859 Rehabilitation from Injury in Sport

Rehabilitation procedures and techniques appropriate to the post-injury retraining of athletes. *Prep.* *Adapted Physical Education* or *permission of instructor*.

62.860 Early Childhood Motor Patterns

The sequential development of fundamental motor patterns from age zero to 10 years. How to observe youngsters in a movement situation and assess their motor patterns is studied.

62.864 Perceptual-Motor Development

An overview of major theories of learning and perception as they apply to learning and refining motor skills. The interrelationships of movement

behavior and perceptual-motor organization of vision, audition, proprioception, kinesthesia, and psycho-social effects are studied.

62.870 Philosophies in Physical Education

An exploration of major philosophies, past and present, and their influence on modern physical education. The student delineates his personal philosophy, explores philosophical analysis as a research technique, and reviews philosophical research. *Prep. Philosophy, Philosophy of Education, or permission of instructor.*

62.872 Comparative Physical Education

Both past and present philosophies and practices of national and international programs in physical education are compared. Historical analysis is introduced as a research technique.

62.880 Sociology of Sport

An analysis of the sociological principles and factors operative in the interaction between sport and society. Pertinent literature and research are reviewed. *Prep. General Sociology or permission of instructor.*

62.882 Psychology of Coaching and Sport

The psychodynamics of the athlete and the coach with particular reference to personality, maturation, motivation, learning, emotions, and perception. Individualized projects are required. *Prep. General Psychology or permission of instructor.*

62.884 Movement and the Learning Process

Major theories and research in learning and their application to learning motor skills. Perceptual-motor development and learning are examined; the programs evolving in this area and their implications for the teaching-learning process of motor skills are presented. *Prep. Educational Psychology or permission of instructor.*

RECREATION EDUCATION

63.805 Program Evaluation in Recreation

Comprehensive systems for evaluating program effectiveness studied as they relate to the consumer of recreation services. Major emphasis placed on developing an evaluation system for an agency of your choice. Case studies are drawn from the public, nonprofit and commercial sectors.

63.812 Seminar in Contemporary Issues and Problems in Recreation Services

Discussion of national and international issues, current trends, and contemporary problems as they affect recreation services.

63.813 Practicum on Clinical Recreation

A minimum of sixty (60) clock hours of supervised clinical experience, required of those students who do not have a degree in Recreation. Students are assigned to institutions that offer services in the area of therapeutic recreation and rehabilitation, community and municipal recreation, or outdoor recreation-education.

Waiving of such requirement may be granted, dependent on the student's background and experience. *Permission of adviser.*

63.816 Budgeting Systems

The rational and political aspects of budgeting studies as they relate to program analysis and policy formulation. Case studies are drawn from the public, non-profit, and commercial sectors.

63.824 School Camping

An independent study of the nature and conduct of outdoor recreation education as implemented in school camping programs. Problems investigated and methods developed under supervision of the faculty adviser and staff.

63.826 Administration of Resident Camp Programs

An in-depth study of staffing, sanitation and health; purchasing and storage of food, materials, equipment, and supplies; kitchen management; insurance, construction, and maintenance of buildings; and program areas as they affect resident camping programs. A study of nationwide goals and trends in the camping movement is included.

63.830 Advanced Organization and Administration of Recreation Services

Patterns for the implementation of recreation service by school systems, voluntary agencies, national service organizations, municipal governments, and state and Federal agencies investigated in depth.

63.834 Programs in Recreation

An examination and evaluation of program content, leadership, administration, and facilities in recreation service, sponsored under public, private, religious, industrial, and voluntary auspices.

63.836 Public Relations for Recreation Agencies

The central purpose of public relations is to influence public opinion. This course focuses on practical and ethical aspects of public relations for recreation agencies. Case studies are drawn from the public, nonprofit and commercial sectors.

63.840 Politics and Bureaucracy in Recreation

Practical problems faced by recreation professionals in public service are investigated. Students study relationships between elected officials,

bureaucrats, peers, subordinates, and supervisors in state and local governments.

63.842 Recreation and the Community School—Concepts and Practices

The role of recreation studied as an integral part of programming for the community school. An analysis of the community school concept with regard to philosophy, physical plant requirements, personnel, finance, and community involvement.

63.844 Leisure and Delinquent Behavior

Recreation studied as an intervention strategy to prevent and rehabilitate delinquent behavior.

63.850 Therapeutic Recreation Services for Special Populations

A survey of the types of therapeutic recreation services. The type, nature, cause, and prognosis of different abnormalities are studied and the impact of the disabilities on the individual, his family and community, and the role of therapeutic recreation in general.

63.852 Seminar on Programming in Therapeutic Recreation

Principles, leadership and programs in therapeutic recreation for individuals with disabilities and handicapping conditions. Emphasis on choice, adaptation, and implementation of appropriate activities. *Prep. either 63.850 or 63.854.*

63.854 Observations of Therapeutic Recreation in Treatment Settings

Guided observation sessions under professional supervision in various clinical settings. Group seminars are held to familiarize students as to the role of the rehabilitation team. *Prep. 63.850 or by permission of the instructor.*

63.857 European Mountaineering

An intense six-day course that covers the basic skills of technical climbing. The course is conducted by the International School of Mountaineering. English-speaking guides extend all students to the utmost of their abilities in various climbing situations: free climbing, ice climbing near Chamonix, France, artificial climbing, or mountain rescue. By the end of the course the student has gained enough skill and experience to continue to climb in the future. The school has a proven method of teaching utilizing a low student-to-teacher ratio of two or three to one, with many alumni going on to climb at a very high level. Climbing is done in a voluntary, relaxed manner with the purpose of learning to enjoy the mountains creatively and safely.

63.858 European Backpacking and Orienteering

A practical course in the basics of safe mountain living and travel on foot. Subjects covered include: group leadership, fauna and flora of the Alpine environment, mountain geology, mountain first aid, and orienteering.

Students participate in several day hikes in the vicinity of Leysin, where scenic walking paths abound, and two extended backpacking trips in contrasting areas of Switzerland. The European style of backpacking differs greatly from the traditional American practice of tenting, employing Alpine huts and refuges.

63.859 Comparative European Recreation

A presentation of recreation, European style. Through the use of guest lecturers, movies, group discussion, and field trips, the Western European approach to recreation and sports is presented. The critical contemporary issues of facility construction, program structure and development, government support, and treatment of special populations are viewed through the European perspective and compared to the American scene. Among the topics included are: recreation and tourism in a mountain society, the European club system, Swiss park construction, therapeutic recreation in Switzerland, mountain rescue, and tourism as a part of recreation. The outstanding recreation facilities of Geneva are visited during the course. A written test and paper are required.

INTERDEPARTMENTAL COURSES

50.841 Introduction to Educational Statistics

Basic statistical techniques such as measures of central tendency, variability, probability, correlation and regression, chi square, t test, and analysis of variance are covered. This course is conducted by the Graduate School of Education in the College of Education.

66.802 Research Design and Methodology

Research methods and designs used in health education, physical education, and recreation education. Emphasis is placed on the development of competence in research techniques including the ability to: define research problems; write hypotheses; review and interpret literature; apply research designs; organize, analyze and present data; and draw relevant conclusions. *Prep. 50.841 or permission of instructor.*

66.805 Planning and Developing Facilities for Physical Education and Recreation

The principles, terminology and standards for planning, construction and use of indoor and outdoor facilities for physical education and recreation. Integrated planning among all municipal departments is stressed.

66.814 Supervision of Professional Personnel

A study of modern personnel management as applied to staff in health, physical education, and recreation. Emphasis on task analysis, personnel, maturity for the task, leadership, and evaluative techniques.

66.874 Seminar in Issues and Trends in Health Education and Physical Education

Analysis of current issues and trends in education with special attention to health and physical education, with emphasis on systematic and practical solutions, resolutions, and adaptations.

66.886 Critical Thinking and Evaluation in Health Education, Physical Education, and Recreation Education

Investigation of the acquisition of knowledge in the three disciplines. Examination of the evaluation of knowledge and practice through experiences in decision making, logical analysis, and critical thinking.

66.890 Thesis/Project I

Initiation of a scholarly investigation under the auspices of the appropriate department. A written research proposal submitted to and approved by the student's thesis committee and an oral proposal presented at a college seminar. *A student must have the permission of his/her program adviser before registering for this course.*

66.891 Thesis/Project II

The investigation proposed in Thesis/Project I implemented with and culminated in an approved written report in thesis form. In partial fulfillment of this requirement, the student attends a series of research seminars. Upon completion, the candidate presents his thesis/project orally before the College seminar group. *Eight quarter hours for Thesis/Project I and Thesis/Project II.*

66.894 Independent Study

Under the guidance and direction of his program adviser, each student develops and conducts a project related to his professional interest which includes: a statement of problem or purpose, hypothesis, an exhaustive review of literature, an appropriate research design, a standard investigating instrument or one of his own design, a small sample of the population subjected to investigation, presentation and discussion of results, and a statement of conclusions. The project is reported in thesis format when appropriate. (Credit arranged with program adviser.) *Prep. permission of program adviser.*

66.899 Seminar/Workshop

The College offers a special seminar or workshop from time to time in health, physical education, physical therapy, or recreation. Graduate credit may be granted for successful completion of a workshop, but credit may not be applied toward a degree program without the approval of the program adviser. All participants must be degree candidates in the Boston-Bouvé Graduate Program or must qualify, prior to registration, as special graduate students. Credit of one, two, three, or four quarter hours is determined by the workshop director. *Prep. permission of workshop director.*

66.901 Health Issues: Implications for Education

Identification and analysis of today's critical health issues. Increased educational involvement to fill the gap between current health knowledge and overt behavior.

66.902 Toward Accountable Health Curriculum

Exploration, assessment, and analysis of the professional team and selected health curriculum. Involvement of current educational philosophy to strengthen the ultimate goal of producing humane individuals by accountable health curriculum.

66.903 Teaching Strategies: School and Community Health Education

Essential contemporary strategies for achieving a humanizing base to reduce the time lag between relevant health information, action, values, and the modification of health behavior regarding school and community health education. Selected student projects in developing models for personal concerns.

66.904 Contemporary World Health

A survey of the state of the world's health, the progress which has been made, and the difficulties yet to be overcome. The importance of "partners in health," as compared to the solitary research worker, in reaching the current health needs. The contributions of WHO, UNESCO, UNICEF, and FAO.

66.905 Environmental Health

The study of some of the most serious problems facing mankind as people continue to pollute and ravage the environment. Student involvement in selected problem areas associated with air, water, and noise pollution; solid waste accumulation; and the use of pesticides and other pollutants.

66.906 Consumer Health

Analysis and evaluation of the concepts concerned with the careful selection of health products and services. Decision making relative to the selection of health products and services; evaluating advertising; quackery; protection against useless or dangerous products through consumer organizations as areas for student exploration and study projects.

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